

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

TAE-YOUNG KIL, et al.

Serial No.:

10/776,517

Examiner:

To be assigned

Filed:

12 February 2004

Art Unit:

2661

For:

COMPLEX WIRELESS SERVICE APPARATUS USING WIRED AND

WIRELESS COMMUNICATION SYSTEMS AND METHOD THEREOF

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O.Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56, and §§1.97 and 1.98 as amended, Applicant cites, describes, and provides copies of the following art references. Under 37 C.F.R. §1.98(a)(2) however, copies of U.S. patent reference(s) are not provided.

CITED IN THE EUROPEAN SEARCH REPORT:

U.S. PATENT REFERENCES:

U.S. Patent Publication No. US 2002/085516 to Bridgelall, entitled AUTOMATIC
AND SEAMLESS VERTICAL ROAMING BETWEEN WIRELESS LOCAL AREA
NETWORK (WLAN) AND WIRELESS WIDE AREA NETWORK (WWAN) WHILE
MAINTAINING AN ACTIVE VOICE OR STREAMING DATA CONNECTION:
SYSTEMS, METHODS AND PROGRAM PRODUCTS, published on 4 July 2002.

FOREIGN PATENT REFERENCES:

 International Patent Publication No. WO 02/062094 to Kallio, entitled GSM NETWORKS AND SOLUTIONS FOR PROVIDING SEAMLESS MOBILITY BETWEEN GSM NETWORKS AND DIFFERENT RADIO NETWORKS, published on 8 August 2002.

CITED IN THE JAPANESE SECOND OFFICE ACTION:

FOREIGN PATENT REFERENCES:

- Japanese Patent Publication No. JP2002-101469 to Ogura, et al., entitled MASTER
 SET FOR CORDLESS TELEPHONE SYSTEM, published on 5 April 2002. (with
 Englished abstract)
- Japanese Patent Publication No. JP8-228384, to Okura, entitled TELEPHONE EQUIPMENT, published on 3 September 1996. (with English abstract)

OTHER DOCUMENTS:

- European partial Search Report corresponding to European Patent Application No. 04003007.4-1249, issued on 20 August 2007.
- Japanese second Office action corresponding to Japanese Patent Application No.
 JP2004-035794, issued on 17 July 2007.
- Technical Specification XP002410542, 3GPP TS 23.234V1.0.0(2002-09) 3RD
 GENERATION PARTNERSHIP PROJECT corresponding to European Patent
 Application No. 04003007.4-1249), released on September 2002.

DISCUSSION

IN THE EUROPEAN SEARCH REPORT

According to the European Search Report issued on 20 August 2007, corresponding to Patent Application No. 04003007.4-1249.

Bridgelall, US'516 discloses that a Mobile Station (MS) is able to vertically roam in either direction between two different network, i.e. WWAN and WLAN. The MS is equipped with a dual mode Radio for WWAN and WLAN transmissions. The WLAN Radio is linked to a WLAN Enterprise Gateway Controller (EGC) via a first air link and the WWAN Radio is linked to a WWAN Base Transceiver Station (BTS) via a second air link. The EGC is connected to a Mobile Switching Center (MSC) which is in turn connected to the BTS. An outgoing VoIP call from the WLAN Radio to a remote party on the WWAN will transition or seamlessly switch over to a WWAN connection when the MS detects packet error rates, frequent scale back or consistent signal degradation. Upon such conditions, the WLAN Radio requests the EGC to request an Explicit Call Transfer via the MSC to the MS integrated WWAN Radio portion which automatically accepts the call based on referenced information stored in the user's subscriber identification module (SIM). Once the WWAN Radio is confirmed connected to the remote party on the WWAN, the WLAN Radio drops the WLAN connection. An incoming call between the MS and a remote user via the WWAN will transition to the WLAN Radio when the MS enters WLAN coverage. The MS issues an ECT to the WLAN. After user verification by the WLAN Radio and the EGC signals acceptance of the call, the WWAN Radio connection is dropped and the call is now established between the WLAN Radio and the remote party on the WWAN.

Kallio, WO'094 discusses that a network architecture for wireless applications including a local radio network such as a wireless local area network (WLAN) which comprises a Wireless Mobile Centre (WMC) arranged to serve as a WLAN access point; a cellular networks such as a GSM network which comprises a Mobile Station (MS) in a form of dual-mode cellular phone to access both WLAN and GSM radio technologies, a Base Station (BS) arranged to convert a radio

signal from the Mobile Station (MS) for communication, a Mobile Switching Centre (MSC) arranged to establish call connection; and a Handover Module implemented in either the Mobile Station (MS) or the Wireless Mobile Center (WMC) for providing seamless mobility between the GSM network and the wireless LAN, when the Mobile Station (MS) roams between the GSM network and the wireless LAN.

SP002410542, 3GPP TS 23.234 V1.0.0(2002-09), 3rd Generation Partnership Project (3GPP), the technical specification states that this document specifies the 3GPP WLAN subsystem. The 3GPP WLAN subsystem is assumed to provide bearer services for connecting a 3GPP subscriber via WLAN to IP based services compatible with those offered via PS domain.

IN THE JAPANESE SECOND OFFICE ACTION

According to the Japanese second Office action issued on 17 July 2007, corresponding to Japanese Patent Application No. JP2004-035794.

Ogura, et al., JP'469 discussed that the master set is provided with a RAM 24 that stores a public telephone number of a slave set 2 called via a base station and a slave set number able to call the slave set 2 through direct radio communication and with a control circuit 22 that conducts a 1st step operation (S26) where the slave set 2 is called by a slave set number when the master set 1 calls the slave set 2 (Y in S23) and a 2nd step operation (S29) where the slave set 2 is called by the public telephone number when no reply comes from the slave set 2 even when the slave set 2 is called by the slave set number (N in S27).

Okura, JP'384 discusses that a table 14 of correspondence between slave machine numbers and public line numbers of slave machines is provided; and when the public line number of a slave machine terminal is inputted to an operation part 10, a control part 12 retrieves whether the slave machine terminal corresponding to this public line number exists or not. When it exists, a mode switching part 18 is switched to the transceiver mode to call it in this mode requiring no charge. If it cannot be called in the transceiver mode, the mode switching part 18 is switched to another mode, for example, the public mode to call it again. If the line is disconnected by extension of the distance

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between slave machine terminals in the middle of speech in the transceiver mode, the slave machine

terminal is called again in the mode other than the transceiver mode.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of

information contained in this Information Disclosure Statement was cited in a communication from

a foreign patent office in a counterpart foreign patent application not more than three (3) months

prior to the filing of the statement.

The citation of the foregoing references is not intended to constitute an assertion that other

or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging

and thorough search of the relevant art.

No fee is incurred by this Statement.

Respectfully submitted,

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INFORMATION DISCLOSURE STATEMENT PTO-1449 (PAGE 1 OF 1)

SERIAL NUMBER 10/776,517	DOCKET NO. P57032
APPLICANT TAE-YOUNG KIL	., et al.
FILING DATE 12 February 2004	GROUP 2661

EXAMINE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE		
	US 2002/0085516	7/4/02	Bridgelall			12/14/01		
	FO	REIGN PATE	NT DOCUMENTS			TRANS	LATION	
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	WO 02/062094	08/08/02	WIPO			Abstract		
	JP2002-101469	04/05/02	JAPAN			Abstract		
	JP8-228384	09/03/96	JAPAN		<u> </u>	Abstract		
	OTHER DOCU	MENTS (In	cluding Author, Title	, Date, Pertine	nt Pages,	etc.)		
	• Europear	partial Sear	ch Report correspondin	g to European	Patent App	olication No) .	
	04003007.4-1249, issued on 20 August 2007.							
	Japanese second Office action corresponding to Japanese Patent Application No. JP2004-							
	035794,	ssued on 17	July 2007.					
	 Technica 	l Specification	on XP002410542, 3GPI	P TS 23.234V1	.0.0(2002-	09), 3 RD		
	GENERA	ATION PAR	TNERSHIP PROJECT	corresponding	to Europe	an Patent		
	Applicati	on No. 0400	3007.4-1249), released	on September	2002.			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.